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OBSTRUCTION DATA SHEET

ODS 129
ELKO MUNICIPAL AIRPORT - J. C. HARRIS FIELD
ELKO, NEVADA

DIGITIZED FROM

OC 129
SURVEYED OCTOBER 1988
9TH EDITION



PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

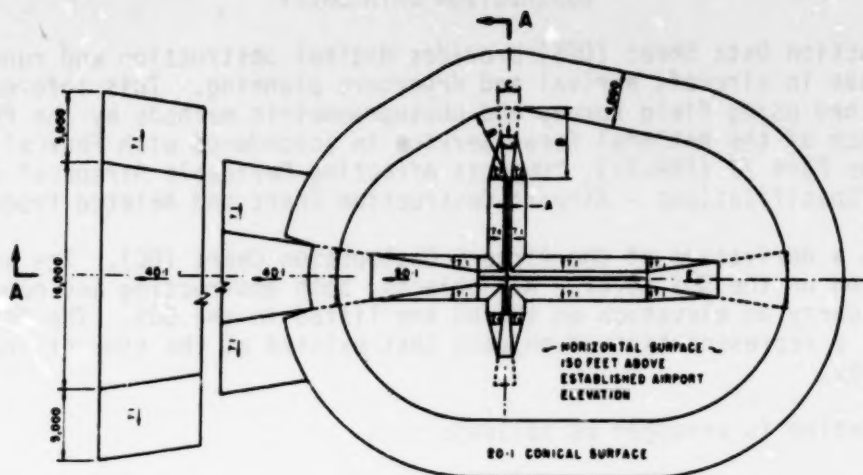
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

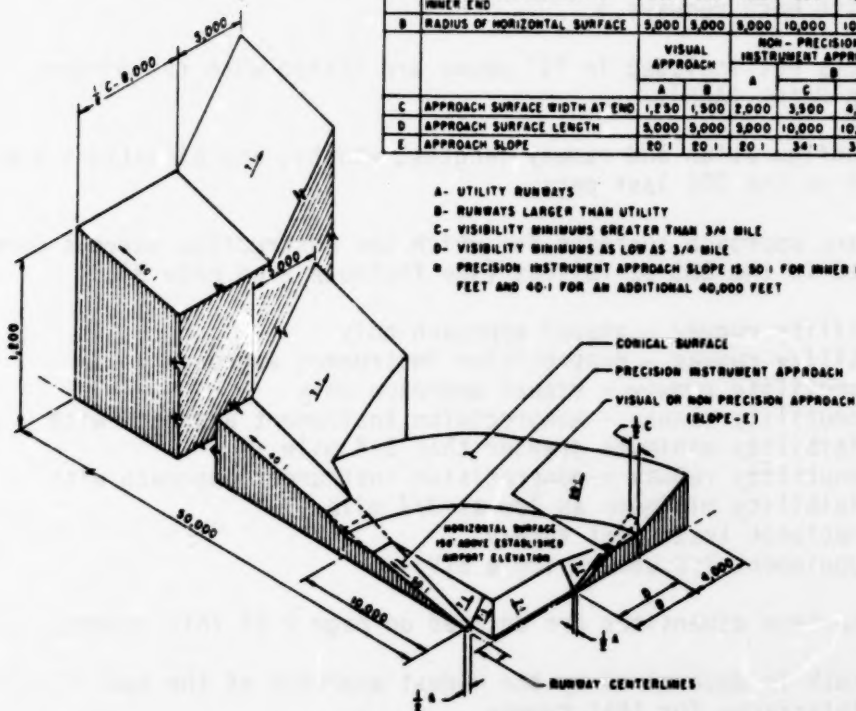
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach with
 visibility minimums as low as 3/4 mile
 PIR Precision instrument runway
 SUPLC ... Supplemental C underlying a B(V)

FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY		PRECISION INSTRUMENT RUNWAY	
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	300	300	300	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	3,000	3,000	3,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH		PRECISION INSTRUMENT APPROACH	
		A	B	A	C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	10,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	0
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	0



ISOMETRIC VIEW OF SECTION A-A

**FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES**

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X¹ X² XXXX/XXXX³

XXXXXX.XXX⁴ XXXXXXXX.XXX⁴ XXXXXXXX⁵

XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXXXX.XXX⁷

OBJECT

LAT

LONG

A⁸ ELEV⁹

AGL¹⁰ HAR¹¹

HAT¹¹ HAA¹¹

DEND¹² DTHR¹²

DCLN¹² PNTR¹³

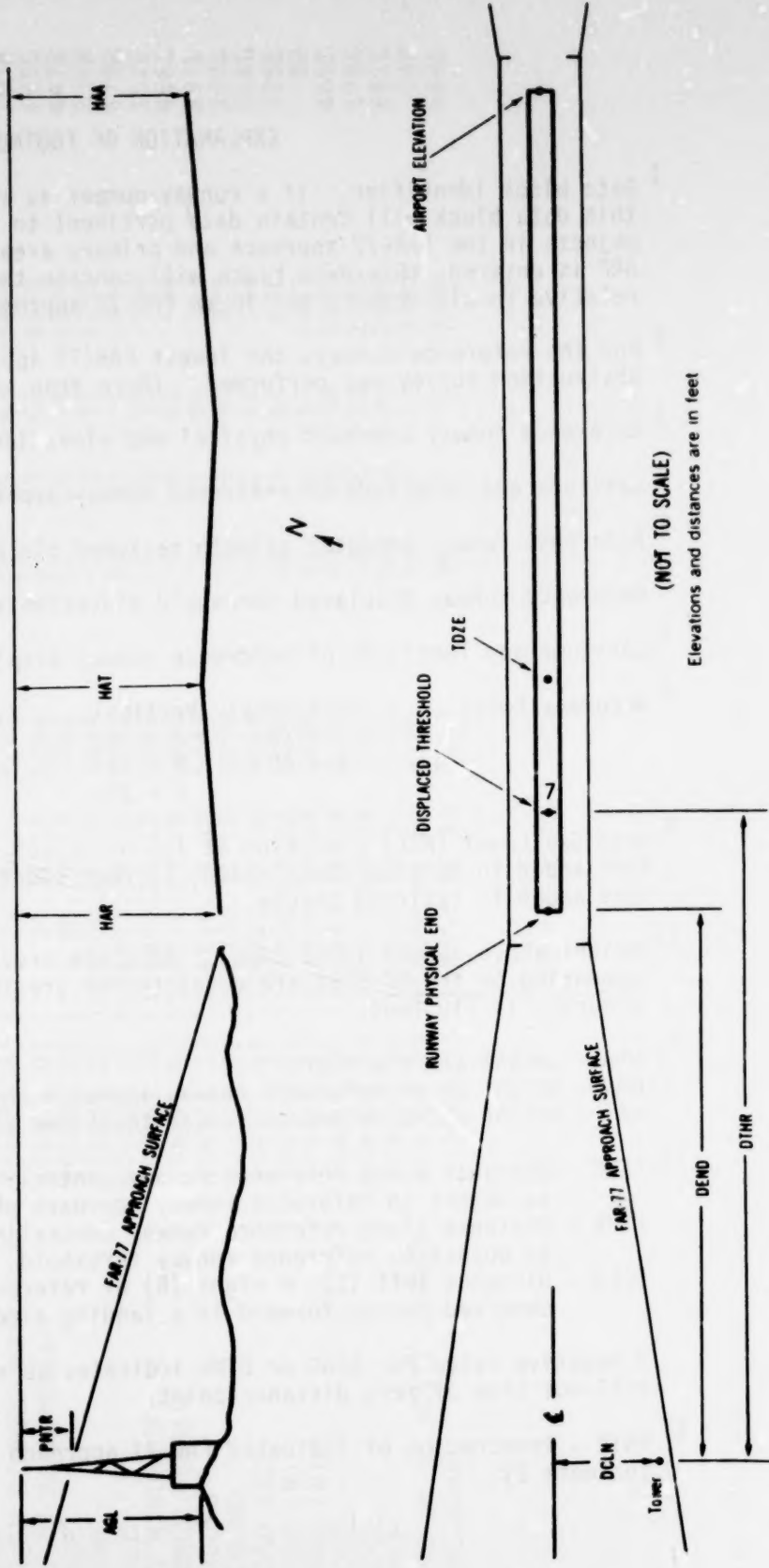
XXXXXXXXXXXXX
XXXXXXXXXXXXX

XXXXXXXX.XXX XXXXXXXX.XXX
XXXXXXXX.XXX XXXXXXXX.XXX

XX XXXX XXXX XXXX
XX XXXX XXXX XXXX

XXX XXX XXXX XXXX
XXX XXX XXXX XXXX

XXXX
XXXX
XXXX



(NOT TO SCALE)

Elevations and distances are in feet

6

FAR 77 APPROACH SURFACE

DISPLACED THRESHOLD

TDZE

AIRPORT ELEVATION

N

FAR 77 APPROACH SURFACE

PNTR

AGL

DCLN

Tower

DEND

DTHR

(NOT TO SCALE)

Elevations and distances are in feet

6

FAR 77 APPROACH SURFACE

DISPLACED THRESHOLD

TDZE

AIRPORT ELEVATION

N

FAR 77 APPROACH SURFACE

PNTR

AGL

DCLN

Tower

DEND

DTHR

EXPLANATION OF FOOTNOTES

- 1 Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.
- 2 For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)
- 3 Reference runway approach physical end elevation/touchdown zone elevation
- 4 Latitude and longitude of reference runway approach physical end
- 5 Reference runway geodetic azimuth reckoned clockwise from south
- 6 Reference runway displaced threshold elevation/touchdown zone elevation
- 7 Latitude and longitude of reference runway displaced threshold
- 8 Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20
- 9 Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.
- 10 Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ± 10 feet.
- 11
 - HAA - Height above airport
 - HAR - Height above reference runway approach physical end
 - HAT - Height above reference runway touchdown zone elevation
- 12
 - DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
 - DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
 - DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.
- 13 PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0129

AIRPORT ELEVATION 5135

5 SUPLC 5047/5047 404908.995N 1154816.877W 2483716

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTN
SIGN	404937.15	1154648.49	1A	5075		28	28	-60	-7366		177L	9
OL ON POLE	404930.97	1154648.23	1A	5092		45	45	-43	-7158		412R	26
CEILOMETER	404938.01	1154655.69	1A	5077		30	30	-58	-6882		460L	14
SIGN	404929.12	1154653.55	1A	5110		63	63	-25	-6708		438R	48
BUSH	404930.43	1154655.76	1A	5063		16	16	-72	-6598		252R	2
BUSH	404930.10	1154656.87	1A	5064		17	17	-71	-6507		252R	4
BUSH	404927.71	1154658.81	1A	5090		43	43	-45	-6280		423R	32
POLE	404926.90	1154709.36	1A	5072		25	25	-63	-5494		205R	20
OL ON LIGHTED WINDSOCK	404931.01	1154720.31	1A	5069		22	22	-66	-4862		489L	20
OL ON ANEMOMETER	404909.83	1154758.12	1A	5061		14	14	-74	-1374		447R	18
POLE	404911.55	1154800.11	1A	5044		-3	-3	-91	-1295		229R	1
BUSH	404908.11	1154802.79	1A	5061		14	14	-74	-976		479R	17
POLE	404910.28	1154806.98	1A	5063		16	16	-72	-756		157R	18
OL WINDSOCK	404913.48	1154818.07	1A	5053		6	6	-82	-80		456L	6
FENCE CORNER	404911.18	1154820.14	1A	5049		2	2	-86	153		297L	2
GROUND	404911.01	1154820.71	1A	5050		3	3	-85	200		297L	3
GROUND	404912.49	1154823.47	1A	5069		22	22	-66	344		514L	18
ROAD (N)	404909.54	1154826.63	1A	5071		24	24	-64	678		325L	10
ROAD (N)	404905.16	1154829.50	1A	5068		21	21	-67	1045		8R	-4
ROAD (N)	404909.02	1154833.55	1A	5096		49	49	-39	1193		469L	20
POLE	404906.20	1154832.69	1A	5082		35	35	-53	1235		179L	5
TREE	404909.98	1154836.78	1A	5105		58	58	-30	1389		651L	23
POLE	404856.50	1154855.86	1A	5122		75	75	-13	3252		84R	-15
ROD ON OL MOVIE SCREEN	404903.23	1154859.94	1A	5133		86	86	-2	3296		664L	-5
BILLBOARD												

OC0129

AIRPORT ELEVATION 5135

23 PIR 5066/ 404934.955N 1154649.550W 0683813 5059/5059 404932.073N 1154659.250W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	404911.01	1154820.71	1A	5050		-16	-9	-85	-7410	-6609	297R	3
GROUND	404911.18	1154820.14	1A	5049		-17	-10	-86	-7363	-6562	297R	2
FENCE CORNER	404913.48	1154818.07	1A	5053		-13	-6	-82	-7130	-6329	456R	6
OL WINDSOCK	404910.28	1154806.98	1A	5063		-3	4	-72	-6454	-5653	157L	18
POLE	404908.11	1154802.79	1A	5061		-5	2	-74	-6234	-5433	479L	17
BUSH	404911.55	1154800.11	1A	5044		-22	-15	-91	-5915	-5114	229L	1
POLE	404909.83	1154758.12	1A	5061		-5	2	-74	-5836	-5035	447L	18
OL ON ANEMOMETER	404931.01	1154720.31	1A	5069		3	10	-66	-2348	-1547	489R	20
OL ON LIGHTED WINDSOCK	404926.90	1154709.36	1A	5072		6	13	-63	-1715	-915	205L	20
POLE	404927.71	1154658.81	1A	5090		24	31	-45	-930	-129	423L	32
BUSH	404930.10	1154656.87	1A	5064		-2	5	-71	-703	98	252L	4
BUSH	404930.43	1154655.76	1A	5063		-3	4	-72	-611	189	252L	2
SIGN	404929.12	1154653.55	1A	5110		44	51	-25	-501	299	438L	48
CEILOMETER	404938.01	1154655.69	1A	5077		11	18	-58	-327	473	460R	14
OL ON POLE	404930.97	1154648.23	1A	5092		26	33	-43	-52	749	412L	26
SIGN	404937.15	1154648.49	1A	5075		9	16	-60	157	957	177R	9
OL ON LIGHTED WINDSOCK	404935.29	1154642.89	1A	5091		25	32	-44	490	1290	155L	19
POLE	404932.97	1154641.43	1A	5099		33	40	-36	508	1309	415L	27
LIGHT POLE	404934.51	1154639.22	1A	5093		27	34	-42	723	1524	331L	17
TREE	404936.21	1154637.45	1A	5101		35	42	-34	913	1714	221L	21
TREE	404934.46	1154635.92	1A	5113		47	54	-22	958	1759	428L	32
POLE	404942.46	1154639.43	1A	5106		40	47	-29	1001	1802	424R	24
TREE	404944.72	1154637.88	1A	5177		111	118	42	1196	1996	593R	91
POLE	404937.45	1154633.98	1A	5104		38	45	-31	1206	2007	201L	18
FLAGPOLE	404941.01	1154634.21	1A	5097		31	38	-38	1321	2122	141R	9
ROAD (N)	404939.75	1154633.01	1A	5079		13	20	-56	1361	2161	12L	-10
POLE	404944.04	1154633.97	1A	5158		92	99	23	1450	2251	420R	67
TREE	404945.58	1154632.85	1A	5175		109	116	40	1588	2388	534R	81
POLE	404946.63	1154626.43	1A	5150		84	91	15	2086	2886	453R	46
ELEVATOR SHAFT	404938.77	1154617.56	1A	5134		68	75	-1	2431	3232	536L	23
POLE	404947.64	1154621.61	1A	5144		78	85	9	2468	3268	413R	33
OL SIGN	404940.91	1154612.93	1A	5138		72	79	3	2842	3642	464L	19
ANTENNA	404945.86	1154609.87	1A	5161		95	102	26	3243	4044	83L	34

OC0129 File Continued from Previous Page

AIRPORT ELEVATION 5135

23 PIR 5066/ 404934.955N 1154649.550W 0683813 5059/5059 404932.073N 1154659.250W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	404947.98	1154610.43	1A	5187		121	128	52	3281	4082	133R	59
TREE	404945.66	1154607.25	1A	5179		113	120	44	3423	4224	175L	49
TREE	404951.60	1154608.30	1A	5206		140	147	71	3567	4368	414R	73
TREE	405001.23	1154600.23	1A	5183		117	124	48	4500	5301	1096R	31
TREE	405002.41	1154555.17	1A	5179		113	120	44	4906	5706	1065R	19
TREE	405000.88	1154551.45	1A	5163		97	104	28	5115	5916	816R	-1
POLE	405030.08	1154155.04	1A	5752		686	693	617	23117	23918	3041L	163

12 (UNPAVED) 5135/ 405000.328N 1154723.339W 3140951

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
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*** UNPAVED RUNWAY NOT SURVEYED ***

30 (UNPAVED) 5069/ 404937.401N 1154652.266W 1341011

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
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*** UNPAVED RUNWAY NOT SURVEYED ***

OC0129

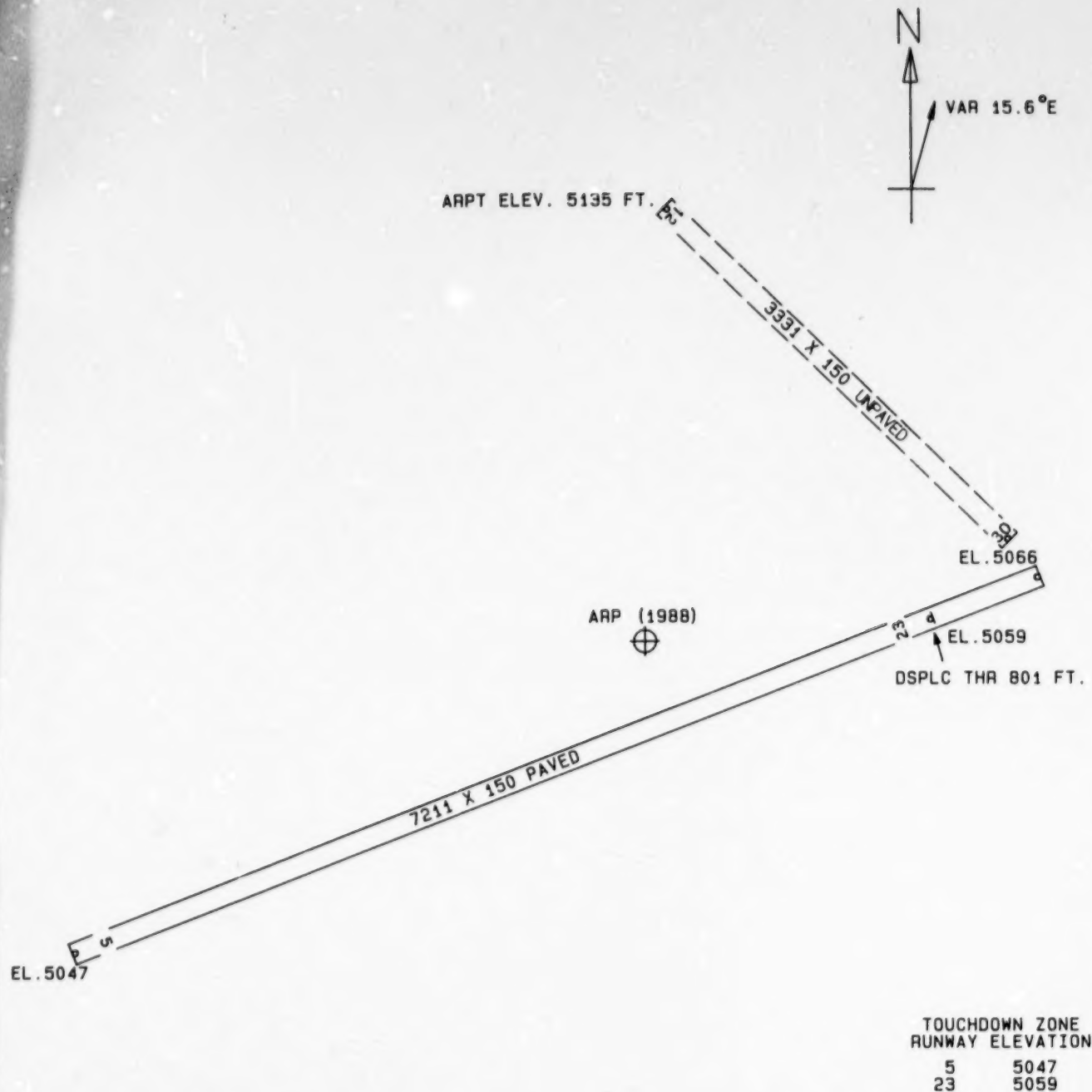
AIRPORT ELEVATION 5135

ARP 404930.473N 1154725.187W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ROD ON OL AIRPORT BEACON	404945.04	1154738.91	1B	5234		99	308 48	1813
OL ON LDA	404920.91	1154801.09	1A	5052		-83	235 5	2925
OL DME	404920.65	1154801.79	1A	5063		-72	234 56	2985
ANTENNA ON OL RTR TOWER	404941.65	1154647.35	1A	5140		5	53 9	3121
TREE	404945.65	1154638.39	1A	5195		60	51 17	3912
TREE	404947.57	1154638.75	1A	5194		59	48 32	3967
CHURCH TOWER	404952.21	1154628.21	1A	5185		50	47 44	4902
POLE	404912.77	1154826.26	1A	5087		-48	233 31	5026
BILLBOARD	405019.00	1154650.12	1B	5273		138	13 9	5603
GROUND	404846.95	1154632.07	1B	5352		217	121 34	6007
GROUND	405033.31	1154722.11	1B	5301		166	346 32	6364
TREE	404838.58	1154632.03	1B	5452		317	126 30	6655
POLE	405002.94	1154848.55	1B	5327		192	281 33	7202
TREE	405003.67	1154557.80	1B	5173		38	47 50	7511
GROUND	405042.70	1154747.92	1B	5358		223	330 57	7516
POLE	405044.50	1154740.34	1B	5375		240	335 34	7582
TREE	404825.16	1154635.20	1B	5601		466	134 13	7646
TREE	404808.65	1154642.10	1B	5603		468	142 36	8919
TREE	405052.44	1154819.77	1B	5481		346	317 35	9296
BUILDING	405101.26	1154625.08	1B	5291		156	11 5	10284
RADIO TOWER	405051.99	1154558.87	1B	5327		192	23 12	10587
BUSH	404750.50	1154642.66	2C	5728		593	146 29	10633
GROUND	404821.90	1154538.37	1B	5394		259	114 35	10753
LIGHT STANDARD	405112.64	1154623.97	1B	5354		219	8 52	11360
VENT ON WATER TANK	405119.97	1154651.96	2C	5437		302	357 23	11372
GROUND	405058.52	1154900.65	2C	5484		349	304 56	11543
POLE	405022.25	1154949.47	2C	5456		321	279 42	12267
FLAGPOLE	405049.70	1154523.39	1B	5294		159	33 49	12326
GROUND	404954.12	1155003.46	1B	5292		157	265 32	12401
GROUND	404801.64	1154524.53	2C	5729		594	118 29	12919
GROUND	404906.86	1154439.40	2C	5365		230	85 0	12968
TREE	404753.50	1154526.31	2C	5787		652	121 25	13411
GROUND	405130.48	1154839.93	2C	5499		364	319 6	13435

AIRPORT ELEVATION 5135

ARP	404930.473N	1154725.187W						
OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
GROUND	405143.03	1154708.93	2C	5465		330	349 43	13473
GROUND	404931.14	1155023.24	2C	5296		161	254 42	13689
GROUND	405113.18	1154928.69	2C	5549		414	302 0	14077
GROUND	404933.88	1155028.40	2C	5322		187	255 49	14089
GROUND	404909.46	1154418.46	2C	5388		253	82 48	14513
GROUND	404707.09	1154701.81	2C	5544		409	157 20	14622
BUSH	404720.92	1154558.40	2C	5843		708	137 25	14712
GROUND	404859.06	1154414.11	2C	5472		337	86 36	15031
GROUND	404849.74	1154356.40	2C	5509		374	88 47	16574
POLE	405031.82	1154011.49	2A	5884		749	63 49	33911
RADIO TOWER	405339.79	1153746.66	2A	7578		2443	44 46	51116



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ELKO, NEVADA
(NOT TO SCALE)